

ABSTRACT OF THE DISCLOSURE

A wavelength selector for transmitting radiation of multiple wavelengths. The wavelength selector includes a four-fiber collimator and provides a first input, first output, second input, and second output channel. The first input channel carries radiation of multiple wavelengths. The second input channel carries the radiation of a first wavelength to be added to the first input channel. The second output channel receives the radiation of a predetermined wavelength that is to be dropped. A switch member with a plurality of filters is movable among a plurality of positions. When the switch member is in a first position, the radiation carried by the first input channel reaches the first filter, and the radiation of the first wavelength carried by the second input channel reaches the second filter. The second output channel receives the radiation of a predetermined wavelength carried by the first input channel. All of the wavelengths except the predetermined wavelength in the radiation carried by the first input channel enter the first connecting channel, reaching the second filter and received by the first output channel together with the radiation of the first wavelength carried by the second input channel.